

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

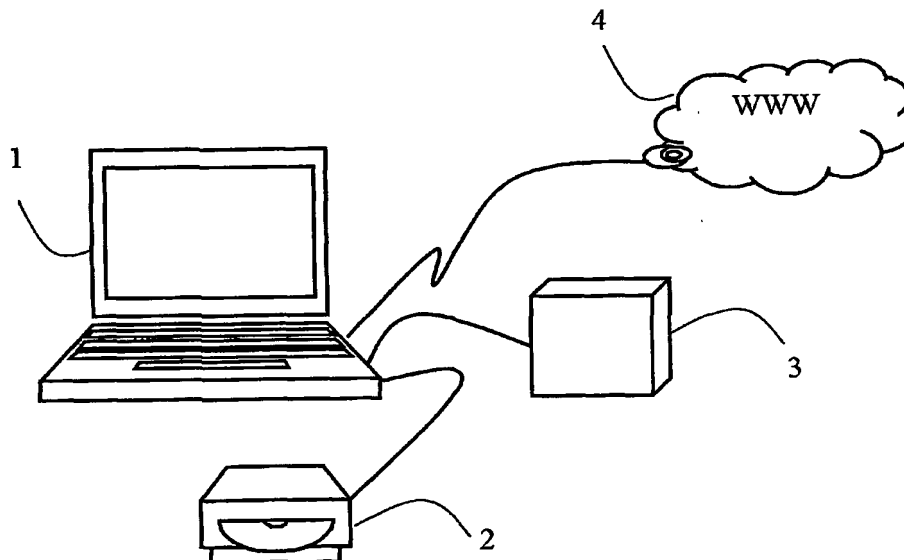
PCT

(10) International Publication Number
WO 2005/041105 A1

- (51) International Patent Classification⁷: **G06F 19/00**
- (21) International Application Number:
PCT/SE2004/001524
- (22) International Filing Date: 21 October 2004 (21.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0302815-6 24 October 2003 (24.10.2003) SE
- (71) Applicant (for all designated States except US): **MATH-CORE ENGINEERING AB** [SE/SE]; Teknikringen 1B, S-583 30 Linköping (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **FRITZSON, Peter** [SE/SE]; Furubackavägen 12B, S-586 63 Linköping (SE). **BALTZER, Lars** [SE/SE]; Hunnebergsgatan 11A, S-582 22 linköping (SE).
- (74) Agent: **BERGLUND, Erik**; Berglunds Patentbyrå AB, Aspebråten, S-50 55 Sturefors (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: COMPUTER SYSTEM FOR DETERMINING A DRUG DOSAGE



(57) Abstract: An apparatus for determining a drug dosage is disclosed comprising: an input interface for receiving data on at least one patient's biochemical profile, and data on at least one specific property of the drug; and processing means having a simulation module for simulating the effect of a certain dosage based on the received data, and an evaluation module for determining, based on a simulation on at least one dosage, a drug dosage for the at least one patient in question. A corresponding method is also disclosed. Hereby, a dosage may be personalized on the basis of the condition and state of each patient, leading to a more effective dosage. This leads to a better and less hazardous treatment of the patient, as well as decreased health related costs in the society. Further, the strain on the environment could be reduced.



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.